

ABSTRACT

A composite material and method of manufacture involve a mixture of an epoxy resin and a hardener being essentially free of methylenedianiline and vinylcyclohexene dioxide. A fiber reinforcement is located within the matrix. Advantageously, the matrix has a glass transition temperature of at least 250°F dry, the resin has a pre-hardening mixed viscosity of 500-1500 cP at 75°F, and the composite material has, upon hardening, an interlaminar shear strength of at least 6.5 ksi dry at 75°F and at least 3.5 ksi dry at 250°F.